

IAP6 Rec'd PCT/PTO 13 FEB 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of
Mills

Group Art Unit: Unknown

U.S. Serial No.: 10/552,585

Examiner: Unknown

Filed: October 12, 2005

Att. Docket No.: 62226-PULSED

**For: PLASMA REACTOR AND PROCESS FOR PRODUCING LOWER-ENERGY
HYDROGEN SPECIES**

February 13, 2006

NEW INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached are PTO/SB/O8A and B forms listing the enclosed documents. Copies of the enclosed documents are attached to the presently filed Information Disclosure Statement and/or to the Attachments to the Response filed herewith.

Applicant advises the Secret Committee that took over examination of his pending applications relating to his lower-energy hydrogen technology that Applicant has made a concerted effort to review those applications for documents cited therein and to make those documents of record in each case. Because, however, Applicant's lower-energy hydrogen applications were consolidated under a single Examiner, Bernard Eng-Kie Souw, Applicant believes that the Committee should already be familiar with the totality of these documents. Nonetheless, for purposes of completeness and ensuring that all cited documents have been brought to the PTO's attention, Applicant provides the following list of applications relating to his lower-energy hydrogen technology:

RECEIVED
FEB 14 2006

Application No. 10/552,585

Page 2 of 3

U.S. Ser. No.	Filing Date
10/552,585	10/12/05
10/893,280	7/19/04
10/513,026	11/01/04
10/494,571	5/6/04
10/469,913	9/5/2003
10/331,725	12/31/02
10/319,460	11/27/02
09/669,877	9/27/00
09/813,792	3/22/01
09/513,768	2/25/00
09/678,730	10/4/00
09/362,693	7/29/99
09/181,180	10/28/98
09/225,687	1/6/99
09/110,717	7/7/98
09/110,694	7/7/98
09/501,622	2/9/00
09/501,621	2/9/00
09/111,003	7/7/98
09/111,160	7/7/98
09/110,678	7/7/98
09/009,455	1/20/98
09/009,294	1/20/98
09/008,947	1/20/98
09/009,837	1/20/98
08/822,170	4/21/97
08/467,051	6/6/95
08/467,911	6/6/95
08/416,040	4/3/95
08/107,357	8/16/93
08/075,102	6/11/93
07/825,845	1/28/92
07/626,496	12/12/90
07/345,628	4/28/89
07/341,733	4/21/89

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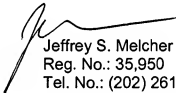
If necessary, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 50-0687 under Order No. **62-226** for which purposes this paper is submitted in duplicate.

This Information Disclosure Statement is intended to fully comply with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Consideration of the foregoing remarks and enclosures, including return of a copy of the attached PTO/SB/08A and B forms with the Examiner's initials in the left column per MPEP § 609 and an early action on the merits of this application, are earnestly solicited.

Respectfully submitted,
Manelli Denison & Selter PLLC

By



Jeffrey S. Melcher
Reg. No.: 35,950
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Fax. No.: (202) 887-0336

Customer No. 20736

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/552,585	
			Filing Date	October 12, 2005	
			First Named Inventor	Mills	
			Group Art Unit	Unknown 1795	
Examiner Name	Unknown Kalafut				
Sheet	1	of	71	Attorney Docket Number	62226-PULSED

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
/SK/		1,001,589		Hatfield	08-23-1911	
		2,708,656		Fermi	05-17-1955	
		3,253,884		Jung, et al	05-31-1966	
		3,297,484		Niedrach	01-10-1967	
		3,300,345		Lyons	01-24-1967	
		3,359,422		Pollock	12-19-1967	
		3,377,265		Caeser	04-09-1968	
		3,448,035		Serfass	06-03-1969	
		3,669,745		Beccu	06-13-1972	
		3,701,632		Lovelock	10-31-1972	
		3,755,128		Herwig	08-28-1973	
		3,816,192		Brower	06-11-1974	
		3,835,019		Lovelock	09-10-1974	
		3,917,520		Katz	11-04-1975	
		4,155,712		Taschek	05-22-1979	
		4,265,720		Winstel	05-05-1981	
		4,274,938		Schulten	06-23-1981	
		4,327,071		Chiu	04-27-1982	
		4,337,126		Gilligan, III et al	06-29-1982	
		4,353,871		Bartilt, et al	10-12-1982	
		4,487,670		Bellanger	12-11-1984	
		4,512,966		Nelson	04-23-1985	
		4,568,568		Asano	02-04-1986	
/SK/		4,664,904		Wolfrum	05-12-1987	

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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(use as many sheets as necessary)

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Group Art Unit	Unknown
Examiner Name	Unknown

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		Office ²	Number ³	Kind Code ⁴ (if known)				
/SK/		WO	90/10935	A1	Pons	09-20-1990		
		WO	90/14668	A2	Cravens	11-29-1990		
		WO	91/01036	A1	Dufour	01-24-1991		
		WO	91/08573	A1	Bush	06-13-1991		
		WO	93/17437	A1	Bush	09-02-1993		
		WO	94/10688	A1	Dufour	05-11-1994		
		WO	94/14163	A1	McKubre	06-23-1994		
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		WO	95/20816	A1	Piantelli	08-03-1995		
		WO	00/25320	A1	Davies	05-04-2000		
		WO	02/08787	A2	De Geus	01-31-2002		
		EP	0 392 325	A3	Semiconductor Energy	10-17-1990		
		EP	0 395 066	A2	Matsushita Electric Ind.	10-31-1990		
		JP	53-134792		Ind. Res. Inst. Of	11-24-1978		
		JP	56-136644		Hitachi	03-28-1980		
		GB	2 343 291		Lloyd Wise, Tregear &	05-13-2000		

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/SK/		WO	90/13126	A1	Mills	11-01-1990		
		WO	92/10838	A1	Mills	06-25-1992		
		WO	94/29873	A2	Mills	12-22-1994		
		WO	96/42085	A2	Mills	12-27-1996		
		WO	99/05735	A1	Mills	03-04-1999		
		WO	99/26078	A1	Mills	5-27-1999		
		WO	99/34322	A1	Mills	7-8-1999		
		WO	99/35698	A3	Mills	07-15-1999		
		WO	00/07931	A1	Mills	02-17-2000		
		WO	00/07932	A2	Mills	2-17-2000		
		WO	01/095944	A2	Mills	12-20-2001		
		WO	01/18948	A1	Mills	3-15-2001		
		WO	01/21300	A2	Mills	03-29-2001		
		WO	01/22472	A2	Mills	3-29-2001		
		WO	01/70627	A3	Mills	08-27-2001		
		WO	02/087291	A2	Mills	10-31-2002		
/SK/		WO	02/088020	A2	Mills	11-7-2002		

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Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet

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Mills

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Examiner Name

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Examiner
Signature

/Stephen Kalafut/

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PTO/SB/08B (Modified)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/552,585	
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/SK/		114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer α Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. (<i>Web Publication Date: June 24, 2005.</i>)	
/SK/		113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," New Journal of Physics, submitted. (<i>Web Publication Date: June 9, 2005.</i>)	
/SK/		112. R. L. Mills, J. He, Y. Lu, Z. M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Central European Journal of Physics, submitted. (<i>Web Publication Date: May 9, 2005.</i>)	
/SK/		111. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H ⁺ (1/4) and H ₂ ⁺ (1/4) as a New Power Source," New J. Chem., submitted. (<i>Web Publication Date: May 6, 2005.</i>)	
/SK/		110. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). (<i>Web Publication Date: April 22, 2005.</i>)	
/SK/		109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (<i>Web Publication Date: April 15, 2005.</i>)	
/SK/		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy System, submitted. (<i>Web Publication Date: April 4, 2005.</i>)	
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		Examiner Name	Unknown		
Sheet	7	of	21	Attorney Docket Number	62226-PULSED

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/SK/		107. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," <i>Physica Scripta</i> , submitted. (<i>Web Publication Date: October 28, 2004.</i>)		
/SK/		106. R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," <i>Foundations of Science</i> , submitted. (<i>Web Publication Date: October 28, 2004.</i>)		
/SK/		105. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," <i>J. Appl. Physics</i> , submitted. (<i>Web Publication Date: September 7, 2004.</i>)		
/SK/		104. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22-26, 2004, Philadelphia, PA.		
/SK/		103. R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K ₂ CO ₃ Electrolysis Gases," <i>Electrochim. Acta</i> , submitted. (<i>Web Publication Date: April 28, 2004.</i>)		
/SK/		102. R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," <i>Phys. Essays</i> , submitted. (<i>Web Publication Date: April 22, 2004.</i>)		
/SK/		101. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.		
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/SK/		100. R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (<i>Web Publication Date: Nov. 17, 2003.</i>)	
/SK/		99. R. L. Mills, Y. Lu, B. Dhandapani, "Spectral Identification of H ₂ (1/2)," submitted. (<i>no date</i>)	
/SK/		98. R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (<i>Web Publication Date: Nov. 18, 2003.</i>)	
/SK/		97. R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (<i>Web Publication Date: Sept. 26, 2003.</i>)	
/SK/		96. J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (<i>Web Publication Date: Sept. 12, 2003.</i>)	
/SK/		95. R. L. Mills, P. Ray, B. Dhandapani, "Excessive Balmer α Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas" IEEE Transactions on Plasma Science, submitted. (<i>Web Publication Date: Aug. 18, 2003.</i>)	
/SK/		94. R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (<i>Web Publication Date: Aug. 6, 2003.</i>)	
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/SK/		93. R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction Forms a New State of Hydrogen," Doklady Physical Chemistry, submitted. (no date)		
/SK/		92. R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, Luca Gambale, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Central European Journal of Physics, submitted. (Web Publication Date: June 6, 2003.)		
/SK/		91. R. Mills, P. Ray, "New H I Laser Medium Based on Novel Energetic Plasma of Atomic Hydrogen and Certain Group I Catalysts," J. Plasma Physics, submitted. (no date)		
/SK/		90. R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, "Characterization of Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Am. Chem. Soc. Div. Fuel Chem. Prepr., Vol. 48, No. 2, (2003). (no month)		
/SK/		89. R. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Hydrogen Plasmas Generated Using Certain Group I Catalysts Show Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride," Fizika A, submitted (no date)		
/SK/		88. R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005) 77-90. (Web Publication Date: Dec. 22, 2003.)		
/SK/		87. R. Mills, B. Dhandapani, M. Nansteel, J. He, P. Ray, "Liquid-Nitrogen-Condensable Molecular Hydrogen Gas Isolated from a Catalytic Plasma Reaction," J. Phys. Chem. B, submitted. (no date)		
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Sheet	10	of	71	Attorney Docket Number	62226-PULSED

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/SK/		86. R. L. Mills, P. Ray, J. He, B. Dhandapani, M. Nansteel, "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. (Web Publication Date: April 24, 2003.)		
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		Group Art Unit	Unknown		
		Examiner Name	Unknown		
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/SK/		79. R. Mills, J. He, B. Dhandapani, P. Ray, "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted (no date)	
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/SK/		52. R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1-70.28. (Web Publication Date: October, 2002, when it became available on the New Journal of Physics website.)	
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/SK/		40. R. M. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568-1578. (Web Publication Date: Nov. 12, 2001.)		
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		Group Art Unit	Unknown		
Examiner Name	Unknown				
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/SK/		22. R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled <i>The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts</i> , (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu, Chairman, December 14-17, 2000, Lago Mar Resort, Fort Lauderdale, FL, Kluwer Academic/Plenum Publishers, New York, pp. 243-258. <i>(Presented at the conference on Dec. 15, 2000; Web Publication Date: May 17, 2001.)</i>		
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/SK/		17. R. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory," Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059–1096. (Web Publication Date: Dec. 11, 2000.)		
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/SK/		Abdallah, et. al. " The Behavior of Nitrogen Excited in an Inductively Coupled Argon Plasma." <i>J. Appl. Phys.</i> , Vol 88, No 1, July 2000, pp. 20-33.	
/SK/		Abelès, Ed. Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides "Color Centers." <i>Optical Properties of Solids</i> , 1972, pp. 718-754. (no month)	
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/SK/		Associated Press. "Pennsylvania Company...Cold Fusion Mystery." <i>Lexis Nexis</i> Reprint, 1991. (April)	
/SK/		Associated Press. "Physicist: Utah Cold-Fusion Gear Doesn't Work." <i>The Washington Post</i> , March 29, 1990, p. A3.	
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/SK/		Barmann et. al. "Spatially and Temporally Resolved Studies of the Electron Density in Liquid Streamers by Emission Spectroscopy" (Internet page) atompc2.fysic.lth.se/AFDOCS/Progrep956/5al.htm (Atomic Physics Progress Report)	
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/SK/		"Blacklight Power - do they have something significant?" (internet page) www.phact.org/e/blp.htm (author and date unknown)	
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/SK/		Bosch, et. al. "Electrochemical Cold Fusion Trials at IPP Garching." <i>Journal of Fusion Energy</i> , Vol 9, No 2, June 1990, pp. 165-186.	
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			Examiner Name	Unknown	
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/SK/		Fujimoto, et. al." Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." <i>J. Appl. Phys.</i> , Vol 66, No 6, Sept. 1989, pp. 2315-2319.	
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/SK/		Hines, "Scientific Mistakes: N-rays and Polywater", <i>Pseudoscience and the Paranormal</i> , Prometheus Books, 1988, pp. 8-13 (no month)	
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/SK/		Judge, "SHE-2 Latest Solar EUV Measurements"(internet page) www.usc.edu/dept/space_science/seh2data.htm, August 18, 1997	
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			First Named Inventor	Mills	
			Group Art Unit	Unknown	
			Examiner Name	Unknown	
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/SK/		Kreig "Hydrinos: A state below the ground state" (internet page) www.phact.org/e/x/hydrino.htm (date unknown)	
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/SK/		"Lehigh X-Ray Photoelectron Spectroscopy Report." December 8, 1993.	
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/SK/		Pauling, et. al. "Introduction to Quantum Mechanics with Applications to Chemistry." <i>Harvard University</i> , 1985, pp. 121-140. (no month)	
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/SK/		Rousseau. "Case Studies in Pathological Science." <i>American Scientist</i> , Vol 80, 1992, pp. 54-63.	
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			Group Art Unit	Unknown	
			Examiner Name	Unknown	
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/SK/		Mills. "Power Spectrum of the Cosmic Microwave Background" <i>BlackLight Power, Inc.</i> 2001. (no month)	
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		Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," <i>European Physical Journal B</i> , submitted. (Web Publication Date: June 6, 2003.)	
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		USPTO Communication re Interview scheduled for February 21, 2003; February 12, 2001 (see Attachment N)		
/SK/		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)		
		Letter from Senator Robert G. Torricelli to Nicholas P. Godisi with attachments, July 20, 2001 (see Attachment O)		
/SK/		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)		
/SK/		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O) Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)		
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		Application Number	10/552,585		
		Filing Date	October 12, 2005		
		First Named Inventor	Mills		
		Group Art Unit			
Examiner Name					
Sheet	70	of	71	Attorney Docket Number	62226-Pulsed

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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